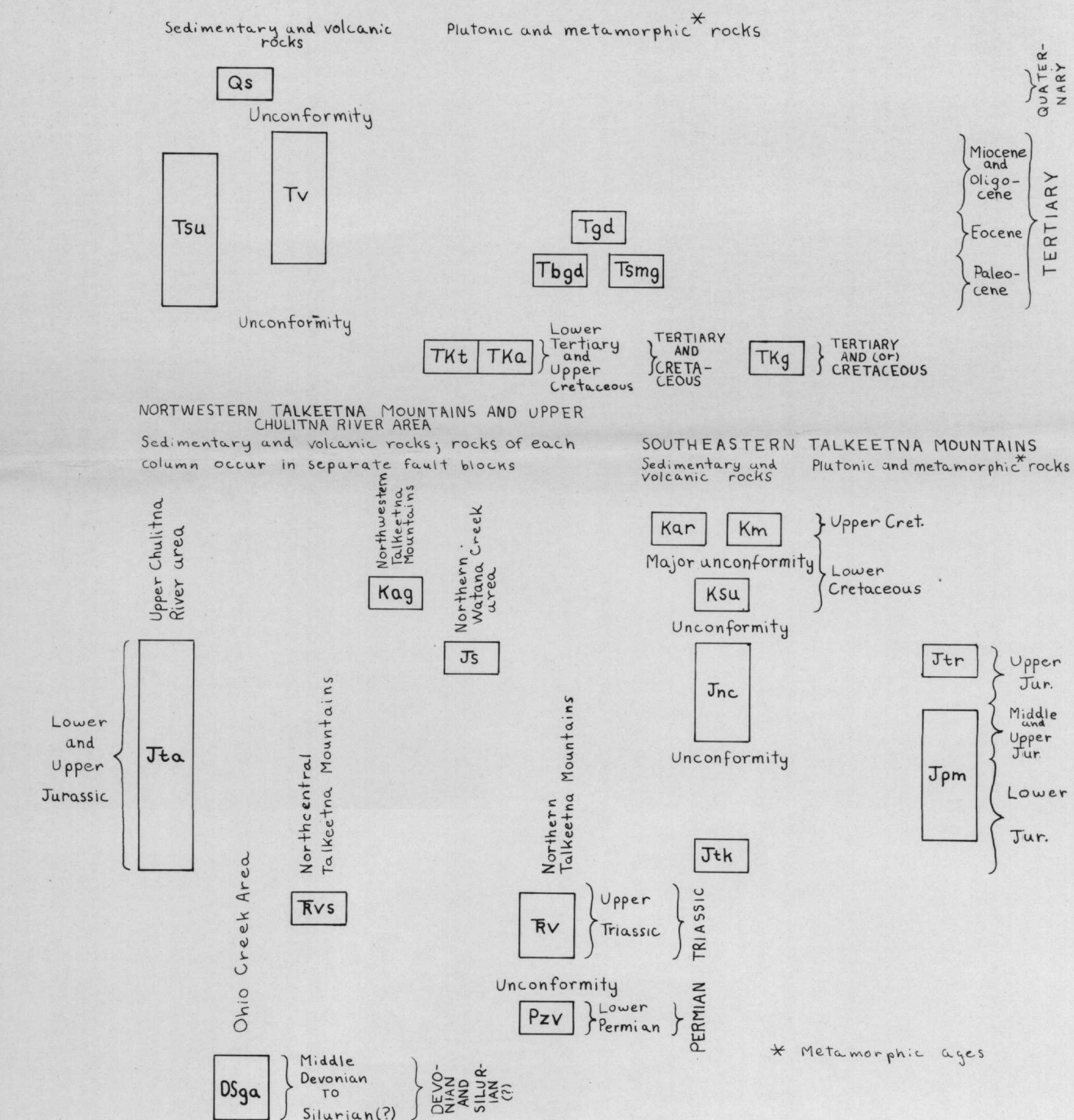


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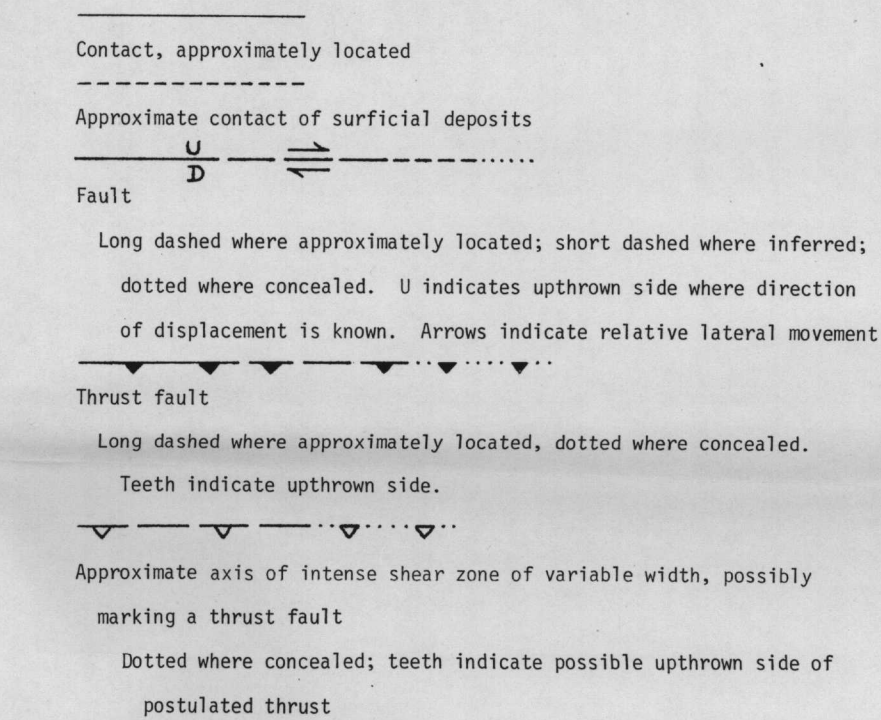
Geology generalized after Csojtoy and others, 1978

Sedimentary and volcanic rocks Plutonic and metamorphic ^{*} rocks



	On SURFICIAL DEPOSITS, UNDIFFERENTIATED (Quaternary).	2tr	TRONQUITE (Upper Jurassic).
Tv	VOLCANIC ROCKS, UNDIFFER. (Paleocene to Paleogene) (V-shale and mafic subaerial volcanic rocks and related shallow intrusions.	2nc	JURASSIC SEDIMENTARY ROCKS, UNDIFFER. (Middle and Upper Jurassic) --Includes Bamek and Chikina Formations, and Tselind Group.
Tsu	TIERTARY SEDIMENTARY ROCKS, UNDIFFERENTIATED (Paleocene to Miocene)-Terrestrial, mostly fluvialite strata with a few lignite interbeds.	2ta	CHESTA TUFF, ARGILLITE, CHERT, GYPSUM, AND LIMESTONE (Lower to Upper Jurassic)-Shallow to moderately deep marine, intercalated sequence.
Tpt	TRIOGRANODITE (Ecocene).	2pm	PLUTONIC AND METACRUPHIC ROCKS, UNDIFFERENTIATED (Lower to Upper Jurassic)-Mainly quartz diorite, granodiorite, amphibolite, and gneenschist.
Tge	TRIOGRANULITE AND HOMOLANITE GRANOGRANULITE (Paleocene, in part early Ecocene).	2tk	TAKETINA FORMATION (Lower Jurassic).
Tmg	TSGIST, MUDWITTITE, AND GRANITE (Paleocene intrusive and metamorphic ages)-Myelitic border zone of biotite and hornblende granodiorites.	2ws	WETBASALT AND SLATE (Upper Triassic)-Intercalated, shallow-water marine sequence.
Tkl	TORALITE (Upper Cretaceous and Lower Paleocene).	2wsb	BASALTIC METABASALIC ROCKS (Upper Triassic)-Mainly shallow water marine metabasalt flows.
Tga	TAGMALITE (Upper Cretaceous and Lower Paleocene).		
Teg	GRANITE ROCKS, UNDIFFER. (Cretaceous and (or) Tertiary).	2zv	BASALTIC AND ANDESITIC METAVOLCANIC ROCKS (Pennsylvanian?) and Early Permian)-Shallow water marine sequence of locally layered basaltic to andesitic flows, tuffs, coarse volcanoclastic rocks, and subordinate mudstones and limestones.
Kar	KAROK RIDGE FORMATION (Lower and (or) Upper Cretaceous).		
Km	KAMASNA FORMATION (Lower and Upper Cretaceous).		
Ksu	SEDIMENTARY ROCKS, UNDIFFER. (Lower Cretaceous)-Shallow marine sequence of calcareous sandstone, claystone, and massive clastic limestones.	2dgm	GYPSUM, ARGILLITE, SHALE, AND LIMESTONE (Sturman?) to Middle Devonian)-Intercalated marine sequence, probably continental margin deposits.
Kag	ARGILLITE AND LITHIC GYPSUM (Lower Cretaceous)-Intercalated, marine, flyschlike sequence.		
Ju	JURASSIC AND VOLCANIC ROCKS, UNDIFFER. (Upper Jurassic)-Marine sequence of argillite, gypsaceous conglomerate, and andesitic to basaltic felspar porphyry dikes and intercalated flows.		

EXPLANATION OF GEOLOGIC MAP SYMBOLS



REFERENCES CITED

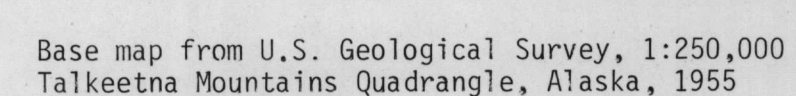
Csejtey, Bela, Jr., Nelson, W. H., Jones, D. L., Silberling, M. J., Dean, R. M., Morris, M. S., Lanphere, M. A., Smith, J. G., and Silberman, M. L., 1978, Reconnaissance geologic map and geochronology, Talkeetna Mountains quadrangle, northern part of Anchorage quadrangle, and southwest corner of Healy quadrangle, Alaska: U.S. Geol. Survey open-file report 78-558-A, 62p.

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.



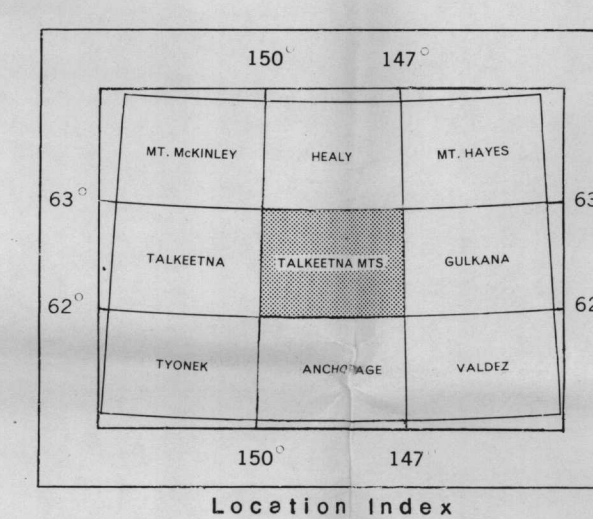
SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 200 FEET

DATUM IS MEAN SEA LEVEL



The figure consists of two parts. On the left is a map of Alaska with a small black square indicating the location of the study area in the central part of the state. Below the map is the text "QUADRANGLE LOCATION". On the right is a diagram showing two vertical lines representing north. The left line is labeled "TRUE NORTH". The right line is labeled "MAGNETIC NORTH" and is tilted to the right. An arc between the two lines is labeled "27 1/2°". Below the diagram is the text "APPROXIMATE MEAN DECLINATION, 1950".

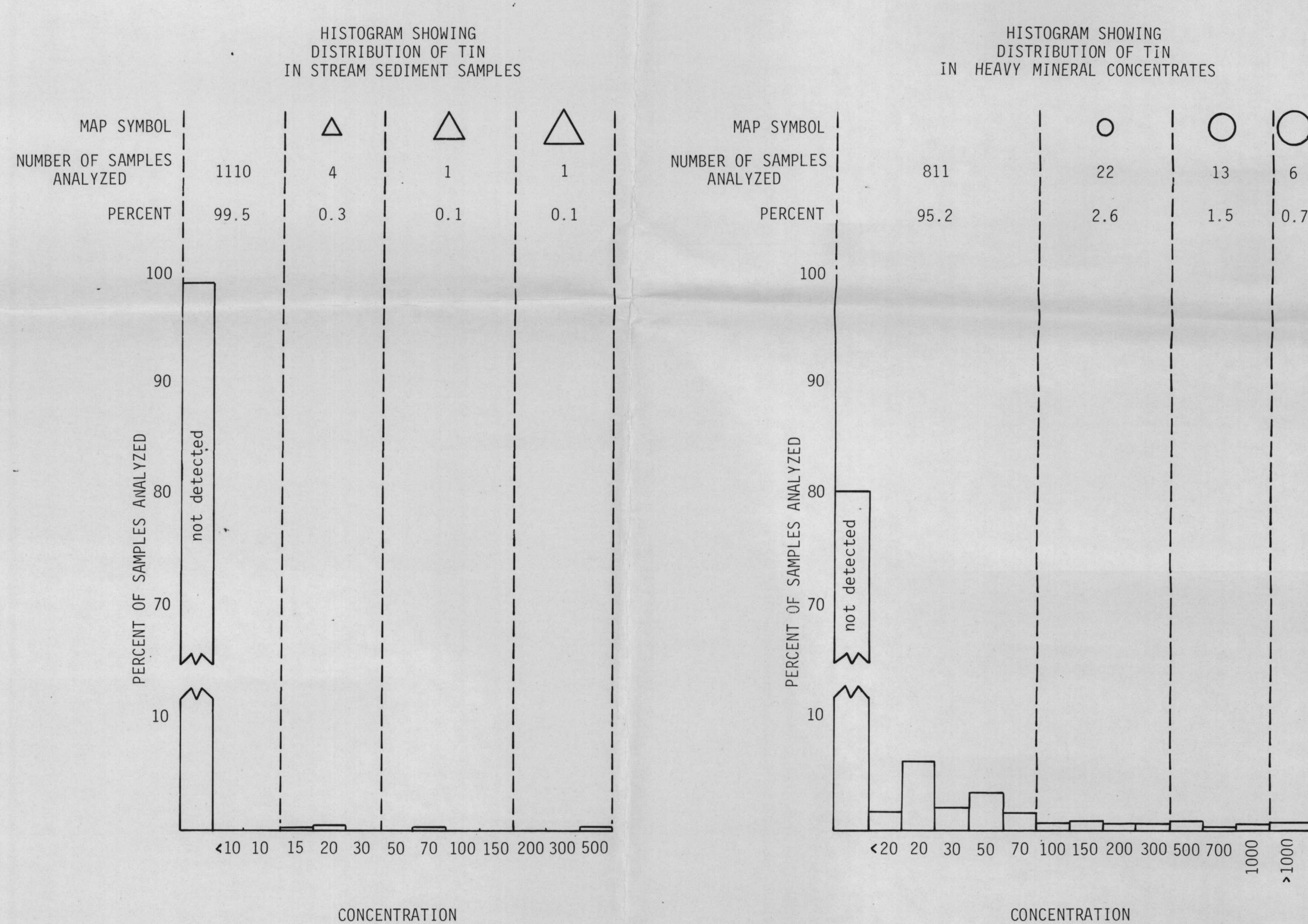
EXPLANATORY STATEMENT

In the course of U.S. Geological Survey investigations of the Taiketa Mountains range, 1116 stream sediment, 870 heavy mineral concentrate, and 501 rock samples were collected. All of the samples were analyzed for up to 30 elements by a six-stage sequential procedure developed at the USGS in 1968-1969. Most of the stream sediment and rock samples were also analyzed for 15 elements by means of atomic absorption spectrophotometry, as described by Ward et al. (1969). This report shows the sample collection sites of 1116 stream sediment samples from 870 streams in the Taiketa Mountains range, plus maps for tin by the spectrographic method. Complete analytical data plus location maps, station coordinates, and discussion of results are given and are available in a report published last month on the present map are published in a report by Miller and

Concentration of metals in geochemical samples varies for different lithologies and in different areas. Because of this, and the various sources of error in the sampling procedure, such as sampling practice, analytical variance, and degree of chemical weathering, it is impossible to select a specific analytical level above which values might indicate the presence of tin deposits. For this reason, the data have been grouped into ranges (see histograms), each range being represented by a different symbol on the map. Higher values may indicate a greater likelihood of tin deposits, but confidence levels are low for the intermediate ranges, and for results which are not supported by neighboring values.

EXPLANATION OF GEOCHEMICAL MAP SYMBOLS

- ▲ - Location of stream sediment sample
- - Location of heavy mineral concentrate sample
- - Location of both stream sediment and heavy mineral concentrate sample
- △ - Stream sediment sample with possibly significant tin value. Increase in symbol size indicates higher analytical value as shown on histogram.
- - Heavy mineral concentrate sample with possibly significant tin value. Increase in symbol size indicates higher analytical value as shown on histogram.



by

R. J. Miller, G. C. Curtin, and Béla Csejtey, Jr.